RRRRR	RRRRRRR RRRRRRR RRRRRRR RRR	UUU UUU UUU	UUU UUU UUU	NNN NNN NNN	NNN NNN NNN	0000	000000	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	
RRR	RRR	UUU	UUU	NNN	NNN	000	000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN	NNN		000	FFF	FFF	
RRR	RRR	UUU	UUU	NNNNN			000	FFF	FFF	
RRR	RRR	UUU	UUU	NNNNN			000	FFF	FFF	
RRR	RRR	UUU	UUU	NNNNN			000	FFF	FFF	
	RRRRRRR	UUU	UUU	NNN	NNN NNN		000	FFFFFFFFFF	FFFFFFFFFF	
	RRRRRRR	UUU	UUU	NNN	NNN NNN		000	FFFFFFFFFF	FFFFFFFFFF	
	RRRRRRR	UUU	UUU	NNN	NNN NNN		000	FFFFFFFFFF	FFFFFFFFFF	
RRR	RRR	UUU	UUU	NNN	NNNNN		000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN	NNNNN		000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN	NNNNN		000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN	NNN		000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN	NNN		000	FFF	FFF	
RRR	RRR	UUU	UUU	NNN	NNN		000	FFF	FFF	
RRR	RRR	UUUUUUUUU		NNN	NNN	0000	000000	FFF	FFF	
RRR	RRR	UUUUUUUUU		NNN	NNR	0000	000000	FFF	FFF	
RRR	RRR	UUUUUUUU	UUUUUU	NNN	NNN	0000	000000	FFF	FFF	

_\$2

00000000 00000000000000000000000000000	000000 00 00 00 00	NN	VV	88888888 88 88 88 88	BBBBBBBB BBBBBBBBB BB BB BB BB BB BB BBBBBB
		\$			

Page

(1)

CONVBB V04-000	Revision History	H 15 16-Sep-1984 00:10:31 VA 14-Sep-1984 13:05:52 [R	AX-11 Bliss-32 V4.0-742 RUNOFF.SRCJCONVBB.BLI;1	Page (2)
445 445 447 448 450 551 52	0043 1 XSBTTL 'Revision 0044 1 0045 1 MODIFIED BY: 0046 1 0047 1 002 0048 1 0049 1 0050 1 0051 1	KFA00002 Ken Alden 07-Mar-1983 Global edit of all modules. Updated module names, copyright dates. Changed require files to BLISS (i	idents, ibrary.	

CI

CONVBB V04-000 VAX-11 Bliss-32 V4.0-742 ERUNOFF.SRCJCONVBB.BLI;1 Page Module Level Declarations 0052 1 %SBTTL 'Module Level Declarations' 0053 1 0054 1 ! 0055 1 54 55 56 57

```
CONVBB
V04-000
                                                                                                                                                                                                                                                                                                 16-Sep-1984 00:10:31
14-Sep-1984 13:05:52
                                                                                                                                                                                                                                                                                                                                                                                                              VAX-11 Bliss-32 V4.0-742 
ERUNOFF.SRCJCONVBB.BLI;1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Page
                                                                       Module Level Declarations
             GLOBAL ROUTINE CONVBB (BINARY_NUMBER, KHARACTERS, KHARACTER_COUNT, BASE) : NOVALUE =
                                                                                                                    FUNCTIONAL DESCRIPTION:
                                                                                                                                               Converts 'binary_number' to a vector of characters, returning them in 'kharacters'; kharacter_count is the number of digits converted.

The absolute value of 'binary_number' is converted, so that the user is responsible for handling negative numbers. The number will be converted according to the value of BASE.
                                                                       00063
000663
000663
0006667
000667
000677
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
000778
0007788
000778
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
0007888
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
0007888
000788
000788
000788
000788
000788
000788
000788
000788
0007888
000788
000788
000788
000788
000788
000788
000788
000788
0007888
000788
000788
000788
000788
000788
000788
000788
000788
0007888
000788
000788
000788
000788
000788
000788
000788
000788
0007888
000788
000788
000788
000788
000788
000788
000788
000788
0007888
000788
000788
000788
000788
000788
000788
000788
000788
0007888
000788
000788
000788
000788
000788
000788
000788
000788
0007888
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
000788
                                                                                                                    FORMAL PARAMETERS:
                                                                                                                                                See FUNCTIONAL DESCRIPTION
                                                                                                                     IMPLICIT INPUTS:
                                                                                                                                                NONE
                                                                                                                     IMPLICIT OUTPUTS:
                                                                                                                                                NONE
                                                                                                                     ROUTINE VALUE:
                                                                                                                     COMPLETION CODES:
                                                                                                                                               NONE
                                                                                                                    SIDE EFFECTS:
                                                                                                                                               NONE
                                                                                                                              BEGIN
                                                                                                                                               DIGITS: INITIAL (CH$PTR(UPLIT('0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ')));
                                                                                                                                                KHARACTERS : REF VECTOR:
                                                                                                                              LOCAL
                                                                                                                                               LEFT_TO_CONVERT;
                                                                                                                             .KHARACTER_COUNT = 0;
LEFT_TO_CONVERT = ABS (.BINARY_NUMBER);
                                                                                                                              DO
                                                                                                                                                BEGIN
                                                                                                                                               KHARACTERS [..KHARACTER_COUNT] = CH$RCHAR( CH$PLUS(.DIGITS, (.LEFT_TO_CONVERT MOD .BASE)));
LEFT_TO_CONVERT = .LEFT_TO_CONVERT/.BASE;
.KHARACTER_COUNT = ..KHARACTER_COUNT + 1;
                                                                                                                              UNTIL .LEFT_TO_CONVERT EQL 0;
```

CONVBB V04-000		Module 1 0113 2 0114 1	R	ETURN:		ns					1		84 00:10 84 13:05		Page	(4)
		0114 1	E	ND;								:	TITLE .IDENT	CONVBB \V04-000\		
45 44 54 53	43 42 52 51	41 39 50 4F	38 3 4E 4	7 36 D 40	35 48 5A	34 4A 59	33 49 58	32 48 57	31 47 56	30 46 55	00000 0000F 0001E	P.AAA:	.PSECT	\$PLIT\$,NOWRT,NOEXE,2 \0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ\	:	
													.PSECT	\$OWN\$,NOEXE,2		
								0	00000	000.	00000	DIGITS:	.ADDRES	S P.AAA	:	
													.PSECT	SCODES,NOWRT,2		
	7E 50		00 50	0	8 BC	52 52 51 52 8E 41 0	0000	0¢ 0¢ 0¢ 10 000•	BC 032 520 801 AC FF40 B520	D6	00000 00002 00005 00009 0000B 000012 00017 0001D 00027 0002B 0002B 00030 00032	15:	ENTRY CLRL MOVL BGEQ MNEGL MOVL EMUL EDIV MOVZBL DIVL2 INCL TSTL BNEQ RET	CONVBB, Save R2 akharacter_count Binary_number, Left_to_convert 1\$ LEFT_TO_CONVERT, LEFT_TO_CONVERT akharacter_count, R1 #1, Left_to_convert, #0, -(SP) BASE, (SP)+, R0, R0 adigits[R0], akharacters[R1] BASE, Left_to_convert akharacter_count Left_to_convert 1\$		0056 0102 0103 0107 0108 0109 0111
; Routi	ne Size:	51 byte	es,	Routi	ne B	ase:	\$0	ODE\$	+ 00	000						
: 118 : 119 : 120		0115 1 0116 1 0117 0	END ELUDO	м								1	End of m	odule		
SPLI SOWN SCOD	S			Ву	tes		T SUI		WRT,	RD RD		NOSHR,		REL, CON, NOPIC, ALIGN(2) REL, CON, NOPIC, ALIGN(2) REL, CON, NOPIC, ALIGN(2)		

CONVBB V04-000

Module Level Declarations

L 15 16-Sep-1984 00:10:31 14-Sep-1984 13:05:52

VAX-11 Bliss-32 V4.0-742 ERUNOFF.SRCJCONVBB.BLI;1 Page 6

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/LIS=LIS\$: CONVBB/OBJ=OBJ\$: CONVBB MSRC\$: CONVBB/UPDATE=(ENH\$: CONVBB)

: Size: 51 code + 40 data bytes : Run Time: 00:01.7 : Elapsed Time: 00:05.7 : Lines/CPU Min: 4153 : Lexemes/CPU-Min: 9230 : Memory Used: 23 pages : Compilation Complete

В

0338 AH-BT13A-SE

DIGITAL EQUIPMENT CORPORATION CONFIDENTIAL AND PROPRIETARY

